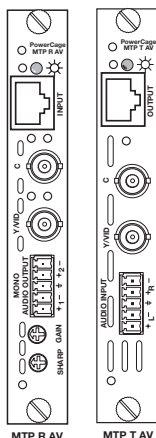


PowerCage™ MTP T AV and MTP R AV Board Setup Guide



The Extron® PowerCage MTP T AV and MTP R AV are twisted pair transmitters and receivers in a modular board format for the PowerCage 1600 modular enclosure. They transmit or receive composite video or S-video and audio over CAT 5-type cable.

Both boards can be used with any CAT 5, 5e, or 6 cable, or Extron Enhanced Skew-Free™ A/V UTP cable for cable runs up to 1000 feet (300 m). The boards mount in any of the 16 expansion slots at the rear of the PowerCage 1600.

Refer to the *PowerCage MTP T AV and MTP R AV User Guide* and the *PowerCage 1600 Enclosure User Guide*, available at www.extron.com.

IMPORTANT:
Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

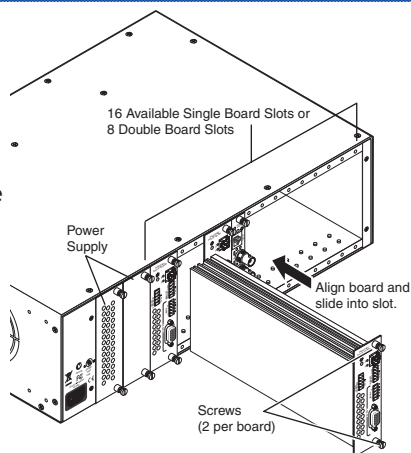
NOTE: The hot-swappable, modular design allows for replacing or upgrading boards in the field at any time, without having to power down the system.

Installation

1. Select an open slot at the rear, or take out a blank plate by loosening the two screws (top and bottom), and lifting the blank away.

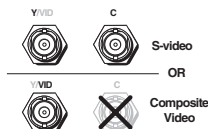
NOTE: If a board is already in the slot, loosen the screws and remove the board.

2. Remove the new board from the box, holding the board by the frame.
3. Hold the board with the signal connectors towards you and the MTP AV board name and LED at the top, and align the top and bottom grooves of the board with the slide posts in the selected enclosure slot.
4. Carefully slide the board into the slot, aligning that the two tabs on the lower front end of the board with the matching ports in the enclosure. Push the board firmly into place.
5. Tighten the screws to secure the board.
6. If applicable, repeat steps 1 through 5 for any other modular boards.



NOTE: Cover all empty board slots; do not leave them open. Using a tool, securely fasten the screws for boards and blank panels after initial installation and subsequent removal and replacement of the boards.

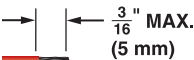
7. If power has been removed, reconnect and power on the PowerCage. The LED on the board lights green and the new board is auto-detected.
8. Following the image at right, connect input or output device cables to the two BNC connectors for S-video signals or for composite video signals.



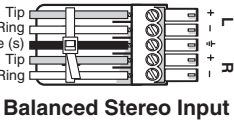
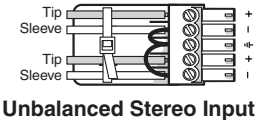
Continued on side 2.

PowerCage MTP T AV and MTP R AV Board Setup Guide, cont'd

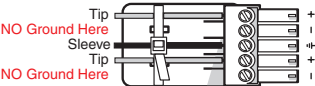
9. Insert a 5-pole captive screw connector into the captive screw audio input or output connector for balanced or unbalanced stereo audio input, or mono output. Wire the connector as shown.



Do not tin the wires!



CAUTION
For unbalanced audio, connect the sleeve(s) to the ground contact. **DO NOT** connect the sleeve(s) to the negative (-) contacts.



NOTE: These boards do not have a jumper to set for stereo audio output. Audio output is always mono.

10. Either connect the output RJ-45 on the MTP T AV to an MTP receiver using CAT 5, 5e, or 6 cable; or connect the input RJ-45 on the MTP R AV board with an output cable to a suitable MTP transmitter. Terminate the cable as shown on the right, using the same standard (T568A or T568B) at both ends.



Pin	T568A Wire color	T568B Wire color
1	White-green	White-orange
2	Green	Orange
3	White-orange	White-green
4	Blue	Blue
5	White-blue	White-blue
6	Orange	Green
7	White-brown	White-brown
8	Brown	Brown

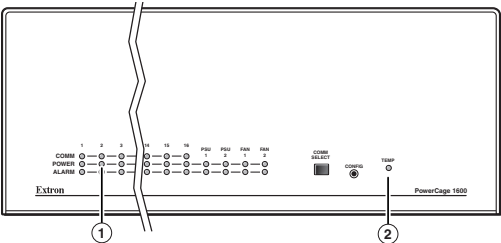
11. Image sharpness and gain (MTP R AV only) can be adjusted with the two front panel rotary encoders for optimizing the image and signal quality. View the image and adjust the either control for the best image quality.

PowerCage Front Panel

The following PowerCage enclosure front panel features are relevant to the installation and operation of the MTP T AV and MTP R AV boards.

NOTE: The MTP T AV and MTP R AV boards are not configurable, and the PowerCage Comm port feature does not work with the MTP boards.

- ① **Power LED (slots 1-16)** — This LED lights to indicate that power is applied to the selected board.
- ② **Temperature LED** — This LED lights if the temperature within the PowerCage enclosure is high (approximately 167 °F [75 °C]) and equipment damage is imminent.



For full installation and operating details of the PowerCage, refer to the PowerCage 1600 Enclosure User Guide available at www.extron.com.

Extron USA - West
Headquarters
+800.633.9876
Inside USA / Canada Only
+1.714.491.1500
+1.714.491.1517 FAX

Extron USA - East
+800.633.9876
Inside USA / Canada Only
+1.919.863.1794
+1.919.863.1797 FAX

Extron Europe
+800.3987.6673
Inside Europe Only
+31.33.453.4040
+31.33.453.4050 FAX

Extron Asia
+800.7339.8766
Inside Asia Only
+65.6383.4400
+65.6383.4664 FAX

Extron Japan
+81.3.3511.7655
+81.3.3511.7656 FAX

Extron China
+400.883.1568
Inside China Only
+86.21.3760.1568
+86.21.3760.1566 FAX

Extron Middle East
+971.4.2991800
+971.4.2991880 FAX

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